OFFICE OF CONGRESSMAN EARL BLUMENAUER
APPROPRIATIONS REQUEST FORM
FISCAL YEAR 2011

Instructions

1. Please complete the entire form. **All fields are required.**
2. Please do not **bold**, underline, or *italicize* responses.
3. Request forms must be submitted as a Word document.
4. All completed request forms and any supplemental materials must be submitted via email to: **Appropriations.Blumenauer@mail.house.gov**
5. Please do not send more than one request per email.
6. All completed request forms must be submitted no later than **Friday, February 26, 2010**.
7. If you do not receive an email confirming receipt of your request within 48 hours of submission, please contact Stephanie Cappa in Congressman Blumenauer's Washington, D.C. office at 202-225-4811.

PLEASE NOTE: All appropriations requests submitted to Congressman Blumenauer's office will be made public on his website, as required by the House Committee on Appropriations.

Project Details

1. **Project title:** Sustainable Careers for Green Economic Recovery (Portland Community College FY 2011 Appropriations Request)

2. **Organization name and address** (the recipient of the funds)**:** Portland Community College, Sylvania Campus, 12000 SW 49th Avenue, Portland, OR 97219

3. **Contact information**
   a. **Project's primary contact:** Kristin Watkins, Associate Vice President for College Advancement
   b. **Daytime telephone number/ mobile phone number: (**503) 977-4696/ [redacted]
   c. **Email Address:** kwatkins@pcc.edu
   d. **Project location** (if different than organization's address): Portland Community College campuses, including Sylvania campus, 12000 SW 49th Avenue, Portland, OR 97219; Rock Creek campus, 17705 NW Springville Road, Portland, OR 97229; Cascade campus, 705 N Killingsworth Street, Portland, OR 97217; and Southeast Center, 2305 SE 82nd and Division, Portland, OR 97216.

4. **Please describe the requesting organization's main activities.**

Portland Community College (PCC) is the largest institution of higher learning in the state, serving more than $1,424,051 college-age residents in a five-county, 1,500-square mile area in northwest Oregon. During the 2008-2009 school year, more than 87,145 students attended PCC. PCC provides high-quality affordable education and career training for a widely diverse student body, including a high percentage of students of color and fist-generation college students. Working in close partnership with local industry leaders, PCC's career training and certificate programs are designed to effectively assist

populations that have historically been underrepresented in college and skilled careers get access to the education and training they need to secure high-quality, family wage jobs.

5. Is this organization a public, private non-profit, or private for-profit entity?
PCC is a public entity.

6. From what federal agency and account are you requesting funds (Please be specific –e.g., Department of Housing and Urban Development, Economic Development Initiatives account)?
Department of Education, FIPSE

7. Briefly describe the activity or project for which funding is requested (no more than 500 words)**.**

Oregon is considered a North American leader in green building initiatives and has made support for sustainable industries a cornerstone of its economic development strategy. However, the state's ability to attract new industry and grow existing ones is limited by its supply of trained workers in these fields. Regional businesses in the fields of building construction, engineering, energy and facilities and automotive maintenance struggle to maintain a workforce that is up-to-date in the skills necessary to respond to the public's demand for energy efficient and sustainable buildings and vehicles. Many of these industries predict labor shortages and skill deficiencies among their workers.

In FY 2010, PCC sought $1.4 million in congressionally directed appropriations to develop the green workforce in Oregon, of which $550,000 was awarded. Continued investments in these programs during FY 2011 would enable PCC to create new programs and expand existing ones to: 1) increase the number of trained renewable energy technicians, building commissioners, green building technicians and designers, and alternative fuel service technicians; 2) create and implement a Green Jobs Training program for high school students; and 3) develop new career training options at PCC for emerging sustainable industry needs. By leveraging PCC's unique combination of training expertise, business connections, commitment to sustainability, and access to diverse populations, this project will help Oregon meet the demand for trained green-collar workers and support the state's economic recovery.

With federal support, PCC will make the following investments:

- Expand the renewable energy training option within PCC's Electronic Engineering Technology Program and prepare 30 new students per year for family-wage jobs as renewable energy technicians in solar, hydro, wind and fuel cell companies.

- Add a new sustainable building commissioner training option to PCC's existing Facilities Maintenance Technology Program and train 100 workers each year in energy-efficient, sustainable construction and engineering fields as building commissioners.

- Add a green roof/green wall training option to PCC's Building Construction and Landscape Technology programs and train 60 new and current workers per year in green construction and maintenance.

- Expand the sustainable building certificate option within PCC's Architectural Design and Drafting program and train 85 students each year in the design of sustainable buildings that minimize environmental impact and maximize occupants' health and well-being.

- Expand the alternative fuels training option within PCC's automotive repair technician program and train 60 students each year in hybrid and plug-in vehicle technology.

- Implement a new Green Jobs Training program for Oregon high school students, training 30 new students each year in Renewable Energy and Solar Voltaic Manufacturing within PCC's existing Electronic Engineering Technology and Microelectronics programs.

Develop additional green technology training and degree options in emerging fields, including environmental monitoring and resource management; green building inspection; and energy-efficient retrofits of existing buildings.

8. What is the purpose of the project? Why is it a valuable use of taxpayer funds? How will the project support efforts to improve the economy and create jobs in Oregon?

PCC's Sustainable Careers Program will meet the demand for trained workers to support growth in Oregon's sustainable Industries, while also creating and supporting permanent "family wage" green-collar jobs for Oregon residents. These training programs will be designed with the direct input of Oregon businesses, helping transform sustainable industry training programs at PCC into long-term sustainable industry careers for Oregon residents. PCC serves a five-county area including Washington County, Multnomah County, Columbia County, Yamhill County and Clackamas County, which will allow the Sustainable Careers Program to directly benefit Oregon residents and businesses in several Congressional districts, including the 1st District, the 3rd District, and the 5th District.

Even as unemployment tops 10 percent in Oregon, sustainable industries are forecasting growth in green-collar positions. In June 2009, the Oregon Employment Department released a report which predicted that the number of green jobs in the state will grow by 14 percent between 2008 and 2010. This would translate to roughly 7,409 jobs with an average hourly wage of $22.61. [1] Another report, which was funded partially by the Lemelson Foundation and the Energy Foundation and published in 2008, indicates that between 41,000 and 63,000 jobs will be created in Oregon and Washington in five clean-tech sectors by 2025.[2] As Oregon and the federal government move forward with substantial economic stimulus packages that invest heavily in the development of green energy technologies and the construction and renovation or energy-efficient infrastructure, it is critical to ensure there is a pipeline of trained Oregon technicians to install and maintain these projects.

Given that these high-demand, well-paying green collar jobs generally require more education than a high school diploma, but less than a four year degree, Portland Community College is uniquely positioned to be the primary provider of training in these emerging fields. PCC has already developed significant expertise in supporting sustainable industries in Oregon, including receiving a three-year 2008 National Science Foundation grant supporting the Sustainability Training for Technical Educators (STTE) Project. Additionally, as the most diverse college or university in Oregon, with a high percentage of students of color and first-generation college students, PCC can also effectively ensure that populations that have historically been underrepresented in both in college and these high-paying career fields have access to the specialized training necessary for industry partners. PCC would work

[1] The Greening of Oregon's Workforce: Jobs, Wages and Training. Oregon Employment Department, Workforce and Economic Research Division. June 2009. http://www.qualityinfo.org/pubs/green/greening.pdf

[2] Carbon-Free Prosperity 2025: How the Northwest can Create Green Jobs, Deliver Energy Security and Thrive in the Global Clean-Tech Marketplace. Climate Solutions and Clean Edge, October 2008. http://www.cleanedge.com/reports/pdf/CarbonFreeProsperity2025.pdf

closely with both existing and new industry partners in the design and delivery of the programs to ensure they meet business needs, with a goal of helping to create good jobs for Oregon residents, as well as supporting Oregon's role as the North American leader in sustainable industries.

PCC, as a Community College, offers a cost-effective way to deliver this vital job training. Dollar for dollar, community colleges offer Oregon residents the most affordable way to gain marketable job skills and education, as well as providing employers with affordable skills training programs for current employees. PCC seeks approximately $874,000 in federal funding to continue building the Sustainable Careers Program, with programs designed to help address specific Oregon labor shortages, as well as filling the sustainable industry "education gap" for post-secondary students in Oregon. As detailed in the budget, the requested funding would be used to develop curriculum, offer classes and purchase specialized lab equipment for hand-on training. If funded, PCC will:

1) Expand the renewable energy training option within PCC's existing Electronic Engineering Technology Program and prepare 30 new students per year for well-paying family wage jobs as renewable energy technicians. Renewable energy technicians design, install and maintain solar, wind, hydro and fuel-cell energy systems, and perform regular preventative maintenance and repair activities on wind turbine generators, solar power installations, and hydro power systems. Business energy tax credits and targeted recruitment efforts have led to the addition of close to 60 new companies in the renewable energy sector. Oregon's strong commitment to renewable energy, including the existing Renewable Portfolio Standard (which mandates that large utilities will supply 25% of electricity from new renewable sources by 2025, including wind, solar, wave, tidal, geothermal, new hydro, biomass, and efficiency upgrades), will drive increased industry and consumer demand for renewable energy technicians. Oregon currently only has three approved Associate degree programs in the renewable energy field, and the growing industry demand for a skilled workforce with two-year degrees already significantly outstrips existing capacity. Many of these technicians' base pay is around $50,000 per year plus overtime.

2) Add a new building commissioner training option to PCC's existing Facilities Maintenance Technology Program and train 100 current workers each year in construction and engineering fields as building commissioners. Building commissioners are highly trained technicians who ensure that new energy-efficient heating, ventilating, and air conditioning systems are designed and installed according to a building's operational needs. Despite the need for skilled building commissioners, there are no such training programs in Oregon – the closest building commissioner training is located in Wisconsin. Moreover, as public demand for green buildings has grown, a significant gap has emerged between the skills of current building commissioners and the specialized new skills needed to assess and operate new energy-efficient systems and equipment. The prevalence and popularity of LEED-certified projects and green retro-fits in Portland will drive continuing job creation in this field. Building commissioners typically earn $47,000 per year.

3) Add a green roof and green wall training option to PCC's Building Construction and Landscape Technology programs and train 60 new and current workers per year in green construction and maintenance. In addition to roof longevity, green roofs and walls offer a variety of additional benefits, including decreased heating and cooling costs within the building, reduced stormwater runoff, reduced urban heat islands, and added green space. Specialized skills are required to construct and maintain these roofs and walls, and these jobs require knowledge in both construction and landscaping. For example, the Edith

Green/Wendall Wyatt Federal Building in Portland recently received American Recovery and Reinvestment Act (ARRA) funding to install a green wall on its west façade, which will provide a high-profile example of successful use of this technology. Yearly salaries in construction range up to $80,000 depending on certificates, licenses and experience, and specialized expertise in green roof/wall construction commands higher compensation, compared to technicians who do not have these skills.

4) Expand the sustainable building certificate option within PCC's Architectural Design and Drafting program and train 85 students each year in the design of buildings that minimize environmental impact and maximize the health and well-being of occupants. New state and city sustainability initiatives require training in building design that emphasizes energy efficiency, building science, sustainable building practices and incentive programs, as well as green retro-fits and updated building codes. PCC offers the only Associate degree in residential design in the Pacific Northwest, preparing students for design and drafting jobs with residential design, engineering, architectural, and construction firms. Driving both public demand and job creation, Portland is home to world-class green design firms, including Gerding Edlen, Brightworks, and SERA among many others. Portland is has more LEED-certified buildings per capita than any other city in the nation. Other Oregon achievements include the nation's first LEED Gold-certified hospital, based in Newberg. Salary for residential designers with knowledge of sustainability principles starts at approximately $36,000 per year.

5) Expand the alternative fuels training option within PCC's automotive repair technician program and train 60 students each year in hybrid and plug-in vehicle technology. The benefits that hybrid and plug-in cars yield in reduced fuel emissions and oil consumption are well-known. Oregon is a leader in alternative biofuel vehicles, including the greenest state car fleet in the nation, and the highest per capita ownership of hybrid vehicles in the nation. As the demand for alternative fuel vehicles increases and as policy changes support the further enhancement and adoption of these technologies, current and entry-level auto technicians must be trained on the diagnosis and repair of these vehicles. Policy mandates which will help drive job creation include strong statewide Renewable Fuel Standards as well as Portland's requirement that all fuel sold in the city include a biofuel component. Additionally, to encourage the electric and hybrid car industry, the state plans to build charging stations throughout Portland. The average salary for an automotive technician is $37,000 per year.

6) Implement a new Green Jobs Training Program for Oregon high school students, training 30 students each year in Renewable Energy and Solar Voltaic Manufacturing within PCC's existing Electronic Engineering Technology and Microelectronics Technology Programs. To meet Oregon's long-term need for skilled renewable energy technicians, it is vital to immediately reach out to existing high school students with green-collar job career options. PCC proposes to open up the first year of both the Renewable Energy Training track and the Solar Voltaic Manufacturing track to allow 30 district high school students in career technical education programs to enroll in these dual credit programs, allowing them to earn green-collar job skills and college credit while completing their high school education. Courses will be offered through a combination of distance learning and faculty-supervised student use of PCC lab facilities and equipment for wind and solar simulation provided at PCC's SE Center location. In addition to providing job skills and college credit, this program will be designed to make high school students aware of job opportunities in sustainable industries.

7) Develop additional green technology training and degree options in a number of emerging fields, including environmental monitoring and management; green building inspection; and sustainable energy and resource management. Sustainable industries are forecasted to be a major economic growth center all across Oregon. The requested funding in this category will help PCC develop instructor expertise in additional areas in response to industry and job market needs; collect industry, employee, and government input about future industry needs; begin to create an innovative career-focused curriculum for these fields; and research appropriate equipment for specialized green job training programs.

Sustainable Oregon industries need a skilled workforce of green-collar workers; Oregon residents in a difficult economy need long-term sustainable jobs that pay a living wage. By providing job training in the critical areas of alternative energy, green construction, maintenance, and design, and alternative fuel automotive technologies, PCC's Sustainable Careers Program will create sustainable jobs that pay a family wage for Oregon residents, while providing a skilled labor force that will help attract and retain sustainable industries in Oregon.

9. Has this project received federal appropriations funding in past fiscal years? Yes

9a. If yes, please provide the fiscal year, Department, Account, and funding amount of any previous funding.
In FY 2010, this project is expected to receive funding from the U.S. Department of Education, FIPSE ($350,000) and the Small Business Administration ($200,000).

Funding Details

10. Amount requested for this project: $874,000

11. Breakdown/budget of the amount you are requesting for this project (e.g., salary $40,000; computer $3,000):

Project Component	Equipment/ Supplies	Personnel	Faculty/Curriculum Development	TOTAL
Renewable Energy Training	$355,000	$16,043	$5,400	**$376,443**
Building Commissioner Training	$2,932	$79,765	$0	**$82,697**
Green Roof/Wall Training	$292,000	$47,610	$6,500	**$346,110**
Sustainable Building Certificate	$5,000	$91,176	$0	**$96,176**
Alternative Fuels Training	$155,000	$0	$45,000	**$200,000**
Green Jobs Training for High School Students	$45,000	$77,625	$0	**$122,625**
Emerging Fields	$0	$0	$200,000	**$200,000**
FY 2010 appropriations commitment*				**($550,000)**
Total	**$854,932**	**$312,219**	**$256,900**	**$874,051**

*In Fiscal Year 2010, PCC's Sustainable Careers Program was awarded $550,000. We do not yet know how those funds will be allocated.

12. What is the <u>total</u> cost of the project? $1,793,203

13. Is this project scalable (i.e., If partial funding is awarded, will the organization still be able to use the funds in FY 2011?)?

While the Sustainable Careers Program would be most effective at the full funding level requested, individual proposed job training programs are scalable if partial funding is received.

14. What other funding sources (local, regional, state) are contributing to this project or activity? (Please be specific about funding sources and funding amounts)

PCC has a strong base of voter support across our five county service region, as demonstrated in the recent passage of PCC Bond 26-95. As part of PCC's commitment to sustainable job training programs, the College will contribute $620,000 of the PCC Bond 26-95 funds to support the additional unfunded costs of this project. These funds will be distributed over the course of Fiscal Years 2010 and 2011. The amount of bond funds distributed to the project per year will depend on how the FY 2010 appropriations are allocated.

15. Please list public or private organizations that have supported/endorsed this project.

- Association of Women in Automotive
- City of Portland
- Conservation Services Group
- Dennis' 7 Dees Landscaping and Garden Centers
- Ecoroofs Everywhere
- Earth Advantage Institute
- Gerding Edlen Development
- Northwest Automotive Trades Association
- PCC Automotive Advisory Board
- Peter's Auto Works
- SERA Architects
- Suzanne Zuniga Architect
- Teufel Nursery
- Tigard SUV & Auto Repair

<u>Please return this form no later than Friday, February 26, 2010 via email to:</u>

Appropriations.Blumenauer@mail.house.gov

Washington, D.C. Appropriations Contact for Rep. Earl Blumenauer: Stephanie Cappa, 202-225-4811, Stephanie.Cappa@mail.house.gov

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